

Region 3 GPRA Baseline RCRA Corrective Action Facility

BASF Corporation

Route 60 East

Williamsburg, Virginia 23187

Congressional District 3

EPA ID #: VAD990710642

Last Updated January 4, 2008

BASF Corporation – below



1. Developed portion of subject property
2. James River
3. Entrance Road
4. Rail Spur
5. Virginia Power Easement

Current RCRA CA Activities

The Virginia Department of Environmental Quality (DEQ) is the lead agency for oversight of Corrective Action (CA) work at the BASF facility under the Resource Conservation and Recovery Act (RCRA). This facility is one of EPA Region III's high priority RCRA corrective action sites.

The DEQ conducted an Environmental Indicator (EI) inspection at this facility. The Environmental

Indicator addressing Human Exposures and dated September 30, 2003, states that current human exposures are under control. The Environmental Indicator addressing Groundwater and dated September 27, 2004, states that current groundwater exposures are under control.

The following documents are currently under review by DEQ:

1) *Groundwater Remediation Plan* dated September 15, 2003, 2) Comments provided by BASF and dated November 19, 2003 on DEQ's review (dated October 15, 2003) of the *Groundwater Remediation Plan*, 3) *Remedial Action Work Plan –PCB Soil Removal* dated September 15, 2003, 4) *Site-wide Soil Risk Assessment* dated September 15, 2003, 5) *Supplemental Soil Investigation Report* dated September 15, 2003, 6) *Area 1A Closure Report* dated August 6, 2003, 7) *Area 1B Closure Report* dated December 23, 2003, 8) *Area 1C Closure Report* dated August 1, 2003, 9) *Area 1D Closure Report* dated October 2, 2003, 10) *Area 1E Closure Report* dated July 11, 2003, 11) *Remedial Action Workplan Addendum – PAH and Mercury Soil Removal* dated January 16, 2004, 12) *Soil Removal Certification Report* dated June 8, 2004, 13) *Sub-Slab Soil Investigation Report* dated February 4, 2005, 14) *Semi-Annual Progress Report 5, March through August 2006* and *Semi-Annual Progress Report 6, August through January 2007* – both including the following in the title, *Groundwater Remediation in the Main Industrial Area* and both dated April 24, 2007, 15) *Building 203 June 2003 Indoor Air Sampling Results and Comparison to Regulatory Standards*, 16) *2005 Annual Compliance Groundwater Monitoring Report* dated October 11, 2005, 17) *Response to VDEQ Letter Dated September 2005 – Site Characterization Report-Area 2 Truswood Property, Corrective Action Plan* dated November 15, 2005, 18) *2006 Annual Compliance Groundwater Monitoring Report* dated October 6, 2006, and 19) *2007 Annual Compliance Groundwater Monitoring Report* dated September 2007.

Site Description

The BASF Facility is located approximately ten miles southeast of Williamsburg, Virginia. The site is bounded on the west by the James River, on the north and south by undeveloped land and wetlands, and on the east by Wood Creek. BASF operated the facility until 1989.

The company manufactured acrylic fibers, acrylic spun yarns, and anti-static non-filament yarns for use in apparel and home furnishings. Since 1989 BASF has been investigating and remediating the contamination at the site. BASF intends to redevelop the site, especially the areas bordering the James River.

RCRA CA Milestones

On January 29, 2007, a meeting was held at the facility with BASF, BASF's consultants, and DEQ in attendance in order to discuss the overall progress of the corrective action at the facility as it pertains to all environmental media. On May 15, 2007, a meeting was held at the DEQ's Central office with BASF, BASF's consultants, and the DEQ in order to mainly evaluate the status of the groundwater corrective action at the facility.

A Statement of Basis, Technical Support Document to support DEQ's position of no-further-action for soils at undeveloped Areas 1A through 1E and groundwater in the undeveloped Areas 1C and 1E is being prepared for submittal to the EPA, Region III. The EPA Region III will utilize the above document to develop the appropriate Statement of Basis for the undeveloped Areas 1A through 1E.

Areas 4A – North Landfill, 4B – Main Landfill, and 4C – Wastewater Treatment Plant were added to the site-wide RCRA Corrective Action as the State Water Control Board Consent Orders were terminated for these areas. The EPA has concurred with the DEQ that the Areas 4A, 4B, and 4C were subject to site-wide CA under the RCRA.

DEQ's review comments addressing the *Site-Wide Soil Risk Assessment, BASF Corporation* dated September 15, 2003 were sent to the facility in a letter dated October 17, 2007. In addition, the DEQ's comments addressing the *Corrective Action Plan, Area 2, Truswood Property*, dated October 14, 2004, were sent to the facility in a letter dated October 25, 2007.

The DEQ's letter dated November 6, 2007, granted BASF until March 31, 2008, to respond to these above two comment letters.

Environmental Indicator Status

Under the Government Performance and Results Act (GPRA), EPA has set national goals to address high priority RCRA Corrective Action facilities by the year 2008. EPA is evaluating two key indicators for each facility: Current Human Exposures Under Control and Migration of Contaminated Groundwater Under Control. This facility is one of EPA Region III's high priority facilities and falls under this initiative.

The DEQ's current evaluation of Environmental Indicators for this facility is as follows:

- *Human Exposures Controlled Determination:* The DEQ has made the EI determination of "yes, that current human exposures are under control." The above determination is based upon the DEQ's Current Human Health Environmental Indicator (HHEI) Determination Report, CA725, dated September 30, 2003. This above HHEI determination is considered current, effective January 4, 2008.
- *Release to Groundwater Controlled Determination:* The DEQ has made the EI determination of "yes, that migration of contaminated groundwater is under control," based upon the review of CA information for the CCP site contained in the EI determination Report, CA750, dated September 27, 2004. The above EI determination indicates that the migration of "contaminated" groundwater is believed to be under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater." This EI determination is considered current, effective January 4, 2008.

Contaminants

The main contaminants known to be present include benzene, 1,1-dichloroethene, 1,4-dioxane, cis-1,2-dichloroethene, tetrachloroethene, vinyl chloride, and zinc.

Community Involvement

The development of a Community Relations Plan will be included during the preparation of the RFI Report.

Government Contacts

The EPA is the lead authority for the BASF site. The DEQ is the technical lead for CA for this project. Please contact the state project manager listed below for details on this project or the contents of this fact sheet.

DEQ Project Manager

Russell McAvoy, Jr.,
DEQ
629 East Main Street
P.O. Box 1105
Richmond, VA 23218
Phone: (804) 698-4194
E-mail: rlmcavoy@deq.virginia.gov

BASF Facility Contact

Mr. Joe McKeon
3000 Continental Drive, North
Mt. Olive, NJ 07828-1234
Phone: (973) 426-2664
Email: mckeonj@basf.com

EPA Project Manager

Denis Zielinski (3WC23)
RCRA Project Manager
USEPA - Region III
1650 Arch Street
Philadelphia, PA 19103-2029
Phone: (215) 814-3431
Email: zielinski.densi@epa.gov

For more information about EPA's corrective action program, including Environmental Indicators, please visit our site at: www.epa.gov/reg3wcmd/correctiveaction.htm

Fact Sheet Updates

The previous fact sheet was updated July 2007. The next update is scheduled for July 2008. Previous fact sheets may be obtained through the listed contacts.